

CLAIMS

1 – 20. (Cancelled)

5 21. (New) A method for processing more than one servo control signal, the method comprising:

 detecting a first servo control signal associated with a first device;

 detecting a first servo control signal associated with a second device;

10 calculating a time period between the detection of the first servo control signal associated with the first device and the detection of the first servo control signal associated with the second device; and

 adjusting a characteristic associated with at least one of the devices if the calculated time period is not within a predetermined range.

15 22. (New) The invention of claim 21, wherein the adjusted characteristic is a servo control signal pattern of one of the devices.

20 23. (New) The invention of claim 21, wherein the adjusted characteristic is a rotational speed of a storage medium corresponding to one of the devices.

 24. (New) The invention of claim 21, wherein the adjusted characteristic is a position of one of the devices with respect to its corresponding storage medium.

25 25. (New) The invention of claim 21, further comprising:
 detecting a second servo control signal of one of the devices;
 wherein the predetermined range is substantially equal to or greater than one-half of the time period between the first servo control signal and the second servo control signal of one of the devices.

30 26. (New) The invention of claim 21, wherein at least one of the first device and second device is selected from the group consisting of: a magnetic head, a laser, and an LED.

27. (New) The invention of claim 21, further comprising storing one or more instructions for controlling the position of at least one of the devices with respect to its corresponding storage medium.

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28. (New) The invention of claim 21, further comprising:
detecting a rotational speed of at least one storage medium corresponding to at least one of the devices.

10 29. (New) The invention of claim 21, wherein the timing of the step of detecting the first servo control signal associated with one of the devices is based on the time at which the other device reaches the end of a track of its corresponding storage medium.

15 30. (New) The invention of claim 21, wherein the predetermined range is selected so as to enable processing of both servo control signals and associated data content in real time, either (i) without substantial loss of data content, (ii) without servo control signal errors, or (iii) without substantial loss of data content or servo control signal errors.

20 31. (New) A controller device for processing more than one servo control signal, the controller device adapted to:
detect a first servo control signal associated with a first device;
detect a first servo control signal associated with a second device;
calculate a time period between the detection of the first servo control signal associated with the first device and the detection of the first servo control signal associated with the second
25 device; and
adjust a characteristic associated with at least one of the devices if the calculated time period is not within a predetermined range.

30 32. (New) The invention of claim 31, wherein the adjusted characteristic is a servo control signal pattern of one of the devices.

33. The invention of claim 31, wherein the adjusted characteristic is a rotational speed of a storage medium corresponding to one of the devices.

34. (New) The invention of claim 31, wherein the adjusted characteristic is a position of one of the devices with respect to its corresponding storage medium.

35. (New) The invention of claim 31, further comprising:
detecting a second servo control signal of one of the devices;
wherein the predetermined range is substantially equal to or greater than one-half of the time period between the first servo control signal and the second servo control signal of one of the devices.

36. (New) The invention of claim 31, wherein at least one of the first device and second device is selected from the group consisting of: a magnetic head, a laser, and an LED.

37. (New) The invention of claim 31, further comprising storing one or more instructions for controlling the position of at least one of the devices with respect to its corresponding storage medium.

38. (New) The invention of claim 31, further comprising:
detecting a rotational speed of at least one storage medium corresponding to at least one of the devices.

39. (New) The invention of claim 31, wherein the timing of the step of detecting the first servo control signal associated with one of the devices is based on the time at which the other device reaches the end of a track of its corresponding storage medium.

40. (New) The invention of claim 31, wherein the predetermined range is selected so as to enable processing of both servo control signals and associated data content in real time, either (i) without substantial loss of data content, (ii) without servo control signal errors, or (iii) without substantial loss of data content or servo control signal errors.